

CLAIMS

What is claimed is:

- 5 1. A rotary orbital sander, comprising:
 - a motor having a rotatable shaft with a radially off-set portion;
 - a suction housing mounted to the motor, around said motor shaft and connectable with a vacuum source,
 - a sanding pad assembly mounted to the radially off-set portion of said shaft;
 - said sanding pad assembly further including a backing pad having a plurality of apertures therethrough and an annular frame having a circumferential side wall including first and second circumferential edges and disposed between said suction housing and said sanding pad assembly;
 - a circular back wall extending from one of said circumferential edges and having an opening therein sealable with said suction housing; and
 - the other of said circumferential edges being attached to said backing pad.
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- 25 2. The rotary orbital sander of claim 1, including a plurality of radially disposed ribs extending generally from said circumferential side wall to a like plurality of leg members disposed about said opening in said circular back wall, stiffening said sanding pad assembly and backing pad.
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3. The rotary orbital sander of claim 1,
wherein said sanding pad assembly further includes a
sanding disk having a size and shape complimentary to
said sanding pad, and a plurality of holes for
5 alignment with the said apertures in said backing
pad.